

Searching the Deep Web

Ms. Greta E. Marlatt



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“Deep” or “Invisible” Web

★ **What is in it?**

- **“Stuff” that search engines can’t or won’t search**
- **Dynamically generated pages [cgi, asp, cfm, URL with ?]**
 - Weather, news, job postings, market prices, available airline flights etc.
- **Web accessible or common theme databases that require information be typed in**
 - Laws, dictionaries, lists of professionals such as Drs or lawyers, calculators
- **Password or login required**
- **Certain file formats [e.g. PDF, images, streaming media, etc]**
- **A lot of the real time data [stock quotes, weather, sports scores, election results etc]**
- **Commercial resources with domain or IP limitations**
- **Information residing on an Intranet**
- **Archives [newspapers]**
- **Thousands of specialized searchable databases**

★ **How big is it?**

- **400-550 times larger than the surface web**
- **7,500 terabytes vs. 19 terabytes**

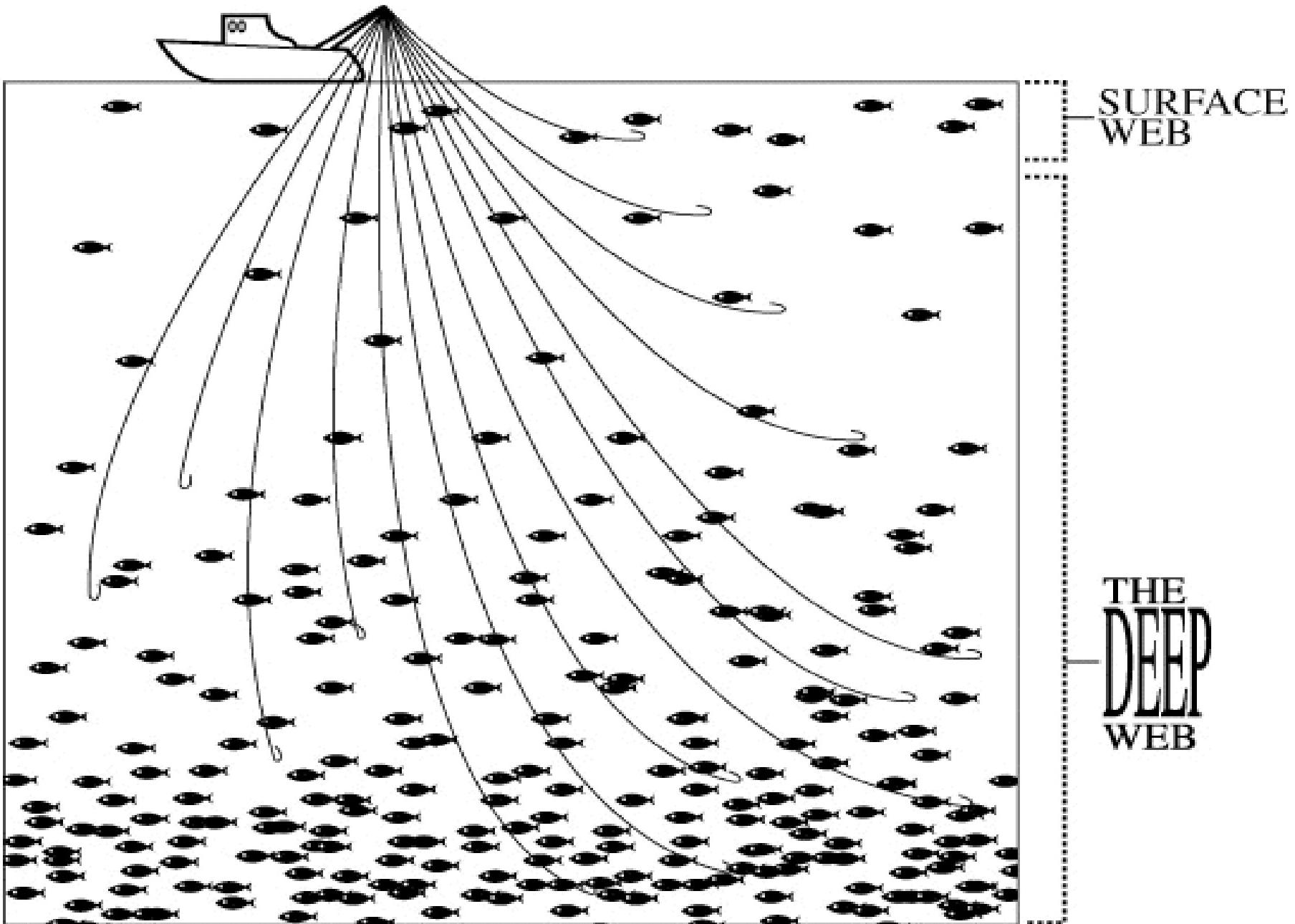
http://www.brightplanet.com/deepcontent/deep_web_faq.asp#DeepWebSize



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SURFACE
WEB

THE
DEEP
WEB



Quick Search

Scientific and Technical Documents

[Quick](#) [Fielded](#) [Subsets](#) [Resources](#) [Other Federal](#)
[Add DTIC Thesaurus](#) [Help](#)

This Quick Search searches all databases checked. Choose this search if you want broad-based search results.
The maximum number of documents returned is 25.

Choose one or more of the following :

- DTIC's Technical Reports Collection ?
 DTIC's Full-Text Collection ?
 DTIC Thesaurus ?
 R&D Descriptive Summaries (RDDS) ?

Note: The more you select, the slower the response time.

Search for : [View Database Descriptions](#)

[Fielded Search](#) | [DTIC Help](#)

Hint : Secure STINET gives you access to unlimited and limited distribution citations received by DTIC since 1985 as well as full text reports and Research Summaries (RS) reports from 1965 to present. Find out how to [register with DTIC and subscribe](#).

Why Use The Deep Web?

- ★ Quality of content/higher level of authority
- ★ Comprehensiveness
- ★ Focused
- ★ Timeliness
- ★ The material isn't available elsewhere on the Web



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When To Use The Deep Web

- ★ Standard search engines aren't working
- ★ A precise answer is needed
- ★ Data or statistics are needed
- ★ High quality or authoritative results are needed
- ★ When timeliness is important
- ★ You know the subject area well
- ★ Looking for collections [images, sounds, manuscripts etc.]
- ★ Reference books online [handbooks, guides, dictionaries, encyclopedias, directories etc.]



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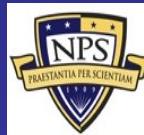
Strategies for Searching The Deep Web

- ★ Have the mindset of a hunter, detective or passionate collector
- ★ Use search engines to get to the front door
 - ★ Plane crash database
 - ★ Toxic chemicals database
 - ★ Lawyers directory
- ★ Use the site map to see if databases or statistics are mentioned
- ★ Use the site's internal search tool and search for "database"
- ★ Check subject specific discussion groups



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What Tools To Use

CALL's Military Domain Search Engine

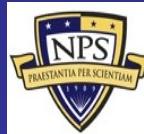
<http://call-search.leavenworth.army.mil/>

**Searches Multiple (Military related) Sites,
including Army, Corps of Engineers, Joint
Services, Mitre Corp., NATO, Navy, Rand, USAF,
USCG and USMC.**



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Welcome to
CALL'S



Military Domain Search Engine

To narrow your search,
specify either text or time
period.

Type text to search for:
officer retention

Search

Search for content
modified during the
last:

Use mouse to select one or
more desired catalogs. Ctrl
key with mouse selects
multiple catalogs:

Army
Corps_of_Engineers
Joint-Services
Mitre
NATO
Navy
Rand
USAF
USCG
USMC

Sort results by:

best matches first

Tips

Search

Military Domain Search Engine

Approximately 2.5 million records indexed

Click [HERE](#) to see the number of records
contained in each catalog.

[Tips for Searching](#)

To use this search engine, you may search all catalogs by simply typing your query, and clicking on search. This searches all available catalogs and time periods. You can further define your search by selecting what catalogs you wish to search and define a desired time period when documents were last modified. See below for an explanation.

Content:

This resource is created by a web crawler that periodically indexes portions of the military domain, and CALL does not maintain the content of web pages and documents found by this search capability. Responsibility for content lies with the organization publishing the information to the Internet. **Query results are created dynamically from indexes created from publicly available on-line and other selected sources. The content and hyperlinks displayed as a result of any search are not controlled by CALL for the information, products or services contained therein.**

choose to
search one or
multiple
catalogs

Content Last Modified:

- If left blank, this field will not be considered.
- The drop down menu lets you pick between 24 hours, 7 days, 30 days or 365 days.
- By picking one of those time periods, you limit your responses to documents that were last modified within a specified time frame.
- NOTE: The quality of this field is dependent on the system in which the document resides. If the date was improperly recorded, it will be improperly reported in this area.

Catalogs:

• <http://call-search.leavenworth.army.mil/>

- By holding down the Ctrl key and clicking on the desired catalog, you can select or deselect multiple catalogs.

arching.

What Tools To Use (2)

CompletePlanet -- <http://www.completeplanet.com/>

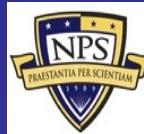
**Covers over 70,000 searchable databases and specialty
Search engines in areas such as:**

- **Business**
- **Engineering**
- **Finance & Economics**
- **Government**
- **History**
- **Military**



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Discover over 70,000+ searchable databases and specialty search engines.

Find databases relevant to:

 All of these words[ADVANCED SEARCH](#)

A comprehensive listing of dynamic searchable databases.
A collection of over 70,000+ databases with highly relevant documents that cannot be
crawled or indexed by surface web search engines.

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- + [Newspapers](#)
- + [People](#)
- + [Places](#)
- + [Politics](#)
- + [Products & Technology](#)
- + [Recreation](#)
- + [References](#)
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- + [Science](#)
- + [Search Engines](#)
- + [Shopping](#)
- + [Social Sciences](#)
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- + [Transportation](#)
- + [Travel](#)
- + [Weather](#)

Technical White Papers: [The Deep Web](#)
[Why is Standard Search Alone Inadequate to Meet Real Business Needs?](#)

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What Tools To Use (3)

First Gov -- <http://firstgov.gov/>

This is the official gateway to all US Government information searching over 51 million web federal and state web pages.

US government telephone directories and email directories -- <http://firstgov.gov/Contact/Directories.shtml>

**Advanced search --
<http://firstgov.gov/fgsearch/index.jsp>**



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- By Organization »
- A-Z Agency Index
 - Federal Executive
 - Federal Legislative
 - Federal Judicial
 - Cross-Agency Portals
 - State Government
 - Local Government
 - Tribal Government
- Contact Your Government »
- E-mail
 - Phone
 - In-Person
- [more](#)

- Reference Center »
- Data & Statistics
 - Government Forms
 - Graphics and Photos
 - Laws & Regulations
- [more](#)



Citizens: Get It Done Online!

 [E-mail This Page](#)

- Find Government Benefits
- Apply for Government Grants
- Shop Government Auctions
- Apply for Government Jobs
- Change Your Address
- E-file Your Taxes
- Renew Your Driver's License
- Mail in Voter Registration
- Get a Passport Application
- Apply for Social Security
- Check Immigration Case Status
- See Lottery Results
- Contact Elected Officials
- Order Consumer Publications
- [More Online Services](#)



Information by Topic »

- Benefits and Grants
Loans, money, funding, financial aid...
- Consumer Protection
Consumer action, publications, credit, complaints, scams...
- Defense and International
National defense, foreign relations, immigration, visas...
- Education and Jobs
Employment, training, careers, labor, wage, workplace...
- Environment, Energy and Agriculture
Farms, food production, natural resources, conservation...
- Family, Home and Community
Housing, human services, community development...
- History, Arts and Culture
Museums, libraries, genealogy, ethnic, traditions...
- Money and Taxes
Unclaimed government money, credit, saving, retirement...
- Public Safety and Law
Crime, prison, law enforcement, disasters, emergencies...
- Reference and General Government
Acronyms, directories, data, forms, photos, laws, libraries, publications, regulations...
- Science and Technology
Biology, engineering, space, innovation, communications...
- Travel and Recreation
Transportation, air, train, international,...

News and Features

- Threat Level Raised
 - Grandparents Raising Grandchildren
 - Make a Difference – Volunteer
 - Terrorism Suspect Photos
 - Find Local Farmers Markets
 - Gas Prices in Your Area
 - Medicare Drug Discount Cards
 - Popular Baby Names
 - Publication of the Week
 - State Travel and Tourism Sites
 - Weather
 - Past News and Features
-
- Agency Press Releases
 - Free E-mail Newsletters
 - FirstGov.gov Press Room

By Audience

- Kids
- Parents
- Seniors
- Military and Veterans
- Americans Abroad
- [More Audiences](#)



What Tools To Use (4)

GPO ACCESS - <http://www.gpoaccess.gov/index.html>

**Multi-Database Search --
<http://www.gpoaccess.gov/multidb.html>**

**Description of the databases searched above --
http://www.access.gpo.gov/su_docs/aces/dcff001.html**

CiteSeer.IST -- <http://citeseer.ist.psu.edu>

Scientific literature digital library that focuses primarily on the literature in computer and information science.



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Multi-Database Search

Select one OR MORE databases and enter your search below. There are [several ways](#) to search across multiple databases from within a scrolling text box. To perform a fielded search of an individual database, go to the specialized search page. [Helpful Hints](#) provide instructions for searching the databases. The default database is the current volume of the *Federal Register*.

[About the Databases](#)

[Access Methods](#)

[Depository Libraries](#)

[FDLP Gateways](#)

[Specialized Search](#)

[Training Manual](#)

- Budget of the US, FY2003
- Budget of the US, FY2002
- Budget of the US, FY2001
- Budget of the US, FY2000
- Budget of the US, FY1999
- Budget of the US, FY1998
- Budget of the US, FY1997
- Campaign Reform Hearing
- Congressional Bills, 103d Congress (1993-1994)
- Congressional Bills, 104th Congress (1995-1996)
- Congressional Bills, 105th Congress (1997-1998)
- Congressional Bills, 106th Congress (1999-2000)
- Congressional Bills, 107th Congress (2001-2002)
- Congressional Directory, 105th Congress (1997-1998)
- Congressional Directory, 106th Congress (1999-2000)

Search Terms:

"embassy bombings"

Maximum Records Retumed: Default is 40. Maximum is 200.

Phrases must be in quotation marks (""). Word roots can be searched using an asterisk (*) following the word stem. For example: legislat* will retrieve both legislation and legislative. [Additional Instructions and examples](#).

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Searching 731912 documents.

Hosted by Penn State's [School of Information Sciences and Technology](#)

<http://citeseer.ist.psu.edu/>

What Tools To Use (5)

Scirus -- <http://www.scirus.com/srsapp/>

This site concentrates on scientific information and covers over 200 million science-specific Web pages. It searches both free and journal sources. Their spiders crawl deeper and do recognize non-text files such as PDF.

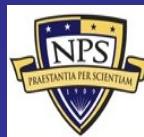
Science.gov -- <http://science.gov/>

This site concentrates on government sites conducting scientific and technical research. It covers authoritative science Web sites and databases of technical reports, journal articles, conference proceedings and other published materials.



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Advanced Search[Basic Search](#) [Advanced Search](#) [Search Preferences](#)**Published between**1930 and 2005 **Information types** All Abstracts Articles Books Company homepages PDF**File formats** All HTML**Content sources** All Journal sources Beilstein on ChemWeb BioMed Central MEDLINE on BioMedNet ScienceDirect Society for Industrial & App. Mathematics All Web sources Chemistry Preprint Server CogPrints E-Print ArXiv Computer Science Preprint Server Mathematics Preprint Server NASA US Patent Office Other**Subject areas** All Agricultural and Biological Sciences Astronomy Life Sciences Materials Science Mathematics



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[Applied Science & Technologies](#)

Biotechnology, Electronics, Engineering, Transport ...

[Astronomy & Space](#)

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[Biology & Nature](#)

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[Featured Web Sites](#)

- ★ [Lose and Manage Weight](#)
- ★ [SNAP – Supernova Acceleration Probe](#)
- ★ [NBII Children's Butterfly Site](#)

▪ [Archive](#) ▪

What Tools To Use (6)

IncyWincy: The Invisible Web Search Engine

<http://www.incywincy.com/>

Government -- <http://www.incywincy.com/default?p=48669>

Military -- <http://www.incywincy.com/default?p=371>

Infomine Multiple Database Search -- <http://infomine.ucr.edu/search.phtml>

Infomine might be called an "academic" search engine, since it focuses on scholarly resource collections, electronic journals and books, online library card catalogs, and directories of researchers.

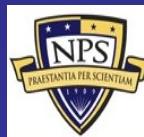
Government Information --

<http://infomine.ucr.edu/cgi-bin/search?govpub>



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What Tools To Use (7)

Invisible Web Directory -- <http://invisible-web.net/>

This site is a companion to *The Invisible Web: Finding Hidden Internet Resources Search Engines Can't See* by Chris Sherman and Gary Price.

Librarian's Index to the Internet [LII] -- <http://lii.org/>

Government -- <http://lii.org/search/file/government>

Military -- <http://lii.org/search/file/military>



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What Tools To Use (8)

Navigating the Military Internet

[http://](http://library.nps.navy.mil/home/milinternet.htm)

library.nps.navy.mil/home/milinternet.htm

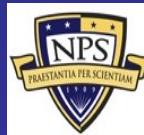
This page, while not a search tool per se, has a lot of good links to all kinds of military information. A related page Where to Find Military Information is also useful since it is organized by topic and leads to many databases containing military information. --

<http://library.nps.navy.mil/home/militaryinfo.htm>



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Questions?



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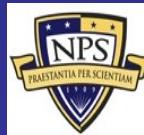
Exercises

- 1) Find the Bureau of Labor Statistics (BLS) Inflation Calculator and discover what the buying power of \$100 spend in 1948 would be today.
- 2) Find a site that will allow you to see when the sun will be rising and setting in Monterey and Basra (30.49 N, 47.82 E) on June 13, 2008.
- 3) Where would you go to find out if McDonalds holds the trademark on the term “Big Mac Attack?”



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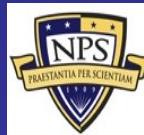
Exercises

- 4) Where would you go to find a map showing real time earthquake data? [hint - who is responsible for tracking this data?]
- 5) Where can you go to find the number of terrorist incidents by al-Qaeda including the number of injuries and fatalities for 2001-2005?
- 6) You're getting ready to deploy to Japan, how can you find out what the Yen is currently worth according to the Feds?
- 7) You are going on travel to attend a conference in Hawaii, where can you go to look up DOD per diem rates including both on and off military installations?



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Exercise Answers

- 1) BLS Inflation Calculator -- <http://www.bls.gov/cpi/>
[\$802.07]
- 2) U.S. Naval Observatory Sun Rise and Sun Set data
http://aa.usno.navy.mil/data/docs/RS_OneDay.html
- 3) US Patent and Trademark Office Trademark Electronic Search System (TESS)
<http://tess2.uspto.gov/bin/gate.exe?f=tess&state=9bldb v.1.1>
- 4) USGS Earthquake Website [with maps of recent activity] <http://earthquake.usgs.gov/>



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Exercise Answers (2)

- 5) MIPT Terrorism Knowledge Base
<http://www.tkb.org/Home.jsp>
- 6) Federal Reserve Board Foreign Exchange Rates [updated daily]
<http://www.federalreserve.gov/releases/h10/update/>
- 7) DOD Per Diem Rates
https://secureapp2.hqda.pentagon.mil/perdiem/perdiem_rates.html



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